



**AUSTRALIAN  
WEIGHING  
EQUIPMENT**  
*Way ahead in Weighing*

PRODUCT GUIDE

# AWE100R

- Compact design
- Lowest cost
- Ideal use





## ■ FEATURES

- Ideal controller for high-speed, high-accuracy weighing, batching and level measurement operations
- Compact design allows mounting on standard 35mm DIN rail
- Full isolation of supply, load cells and outputs
- Drives up to 8 load cells
- Offset and span time calibration functions - system can be calibrated without application of test masses
- Relay, serial and analog output options make it valuable for stand-alone control or as an interface for PC, PLC & HMI applications.
- Intuitive scrolling text prompts facilitate easy setup and user navigation
- Locally designed and manufactured - most configurations are Ex-stock Melbourne works
- Lowest cost feature for feature instrument on the market

## ■ IDEAL USES

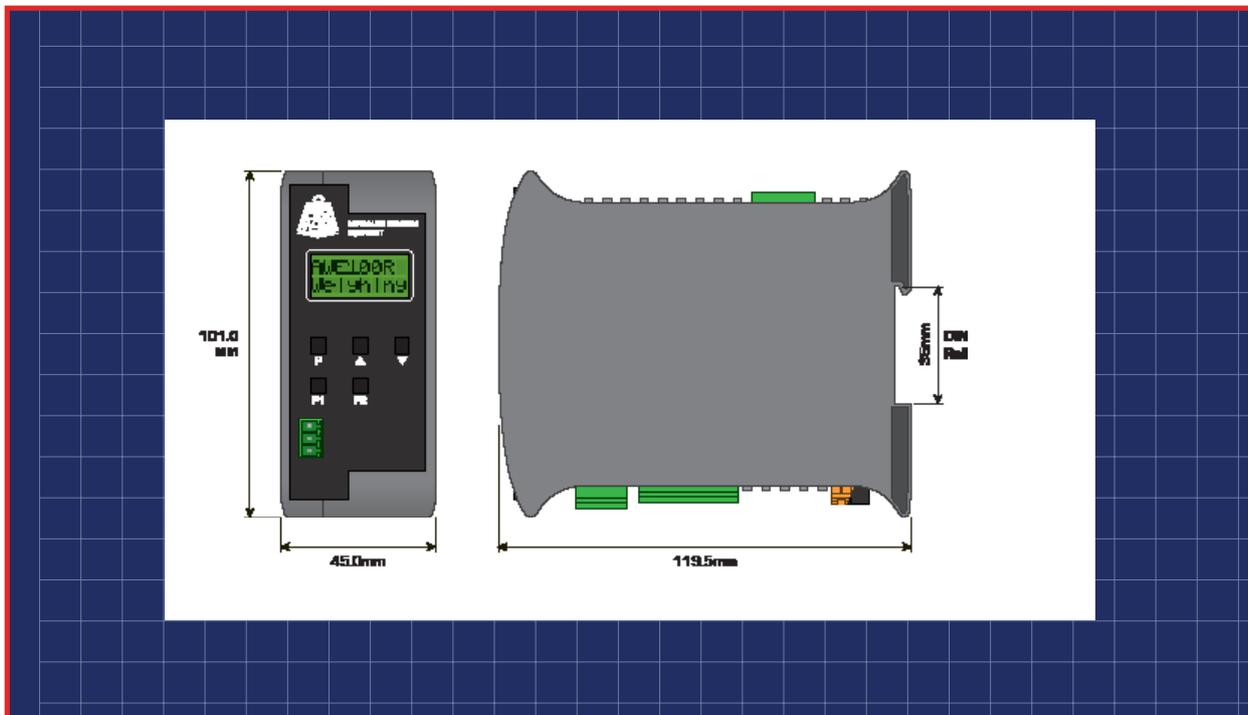
- Trip amplifier where the low setpoint might find applications for slack rope or low tank level, and the high setpoint might be overload or high tank level
- Tank level controller
- Tank farm signal conditioner
- Crane trip amplifier
- Silo weighing instrument
- Weight transmitter
- Modbus network interface (analog or digital)
- Weighing interface to PLC



Ideal controller  
for **high-speed,**  
**high-accuracy**  
**weighing,**  
**batching & level**  
**measurement**  
**operations**



## DIMENSIONS



## TECHNICAL SPECIFICATIONS

Model	AWE100R
Input	4/6-wire strain gauge 1-5mV/V
Power supply	HV - 85-265V AC / 95-370V DC LV - 15-48V AC / 10-72V DC
Relay outputs	2 programmable form A relays with hysteresis and delay on make
Analog output <b>OPTIONAL</b>	Isolated 16-bit 4-20mA / 0-10V output (fully scaleable). Window programmable over any range within the full-scale range of the controller. 7Hz
Serial port <b>OPTIONAL</b>	Isolated option 2 or option 4 serial port » Modes: ASCII, Modbus/RTU slave, Ranger A output » Data ranges: 300-38400 » Parity: Odd, even or none
Excitation	5V DC excitation supplied (powers up to 8 x 350Ω load-cells)
Sampling rate	Up to 50Hz
Resolution	18-bit
Accuracy	0.005% of reading
Temperature drift	Typically 3ppm/°C
Operating temp	-10°C to 50°C
Calibration	Pre-calibrated for 0-10,000 counts (2mV/V sensor gain at full scale). Can be recalibrated using the auto (apply mass) or mV/V method. Adjustable zero offset and span.
Easy setup	Intuitive text prompts facilitate easy setup
Security	Calibration and setpoint functions have independent security code access. Direct access to setpoint activation values is independently configurable.
Inputs	Hold, lock, tare, batch, zero, peak hold and print remote commands

## CASE SPECIFICATIONS

Display	LCD alphanumeric. 2 display rows, 8 digits per row (16-characters total)
Serial port	Front panel serial port (option 2 or option 4)
Buttons	5 buttons. Program, up, down and 2 menu buttons
Dimensions	101 x 45 x 119.5mm (H x W x D). Mounts to 35mm DIN rail.

## ORDERING CODES

CODE	DESCRIPTION
AWE100	AWE Series
R	DIN 35 rail mount
- LV	15-48V AC / 10-72V DC power supply
- HV	85-265V AC / 95-370V DC power supply
- R	Relay outputs (2) form A
- 2	RS232 isolated output
- 4	RS485 isolated output
- A	Analog output option installed

## OPTIONS

CODE	DESCRIPTION
AWE - 2	RS232 isolated serial output
AWE - 4	RS485 isolated serial output
AWE - A	Analog isolated source powered output (4-20mA, 1-5V)



## ■ AWE - THE BEST IN THE BUSINESS

AWE has built a reputation in providing world class products and services to customers from a wide range of industries for many unique applications. All the products come with AWE Quality Guarantee- giving you the assurance that they have been tested to meet or exceed the specifications and requirements of your application. At AWE, it's more than just delivering perfectly-designed equipment, it also requires a team of dedicated people who will back you up with great service and support. Any servicing, installation and technical support issues you encounter can be addressed either onsite or remotely by our engineers and tradesmen who carry qualifications as:

- Licensed Tradesmen
- Mechanical Engineers
- Electrical Engineers
- Structural Engineers
- Draftsmen
- Fitter & Turners
- Boilermakers
- Fully Qualified Scale Makers
- Electronic Technicians
- Instrument Fitters
- Electricians
- Service Technicians
- Project Managers
- Formworkers
- Concreters

Call AWE today.



If you have questions about

- **weighing equipment**
- **packaging equipment**
- **bulk materials handling**
- **componentry**

call the sales team at *AWE Group* to find the right solution for your individual needs.

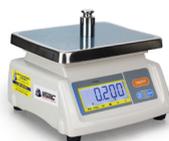
## ■ AWE PRODUCT RANGE



Weighbridges



Load Cells



Scales



Crane Scales



Indicators



Packaging Equipment



Onboard Weighing



Batching Consoles



Test Weight



Maintenance



## ■ WHO IS “AUSTRALIAN WEIGHING EQUIPMENT GROUP”

Jeff & Trevor Baillie started Australian Weighing Equipment (or AWE) in 1981, focusing on weighing solutions based on engineering principles. For nearly 40 years AWE has built its reputation as a leading supplier of robust weighing, packaging & bulk handling equipment. Our innovative engineering and continuous product developments have led to designs that will stand up to the rigours and demands of your applications.

AWE has increased its investment in manufacturing facilities with a new 3,200sq/m factory in Sydney which has

- A CNC Machine Shop
- Heavy Metal Fabrication Shop
- Larger work areas for our team of qualified tradesman

Acquisitions of Bradwood Packaging and Dendy Packaging and Design Engineering has increased our packaging and engineering experience.

In 2008, AWE established a manufacturing facility in China - AWE Group Packaging and Bulk Materials Handling Equipment, a purpose-built 5,000sq/m factory in Suzhou China (70kms From Shanghai).

All of the products we offer are Australian designed and manufactured under our strict quality control system in our own factories both locally and internationally.

## ■ LOCATIONS OF AUSTRALIAN WEIGHING EQUIPMENT



Australian Weighing  
Equipment - Sydney Office

8 Heald Road  
Ingleburn NSW 2565



Australian Weighing  
Equipment - Melbourne Office

37 Barrie Road  
Tullamarine, VIC, 3043



Australian Weighing  
Equipment - Brisbane Office

7 Darnick Street  
Underwood, QLD1 4119

## ■ AUSTRALIAN WEIGHING EQUIPMENT ON SOCIAL MEDIA



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www.youtube.com/AustWeighing



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